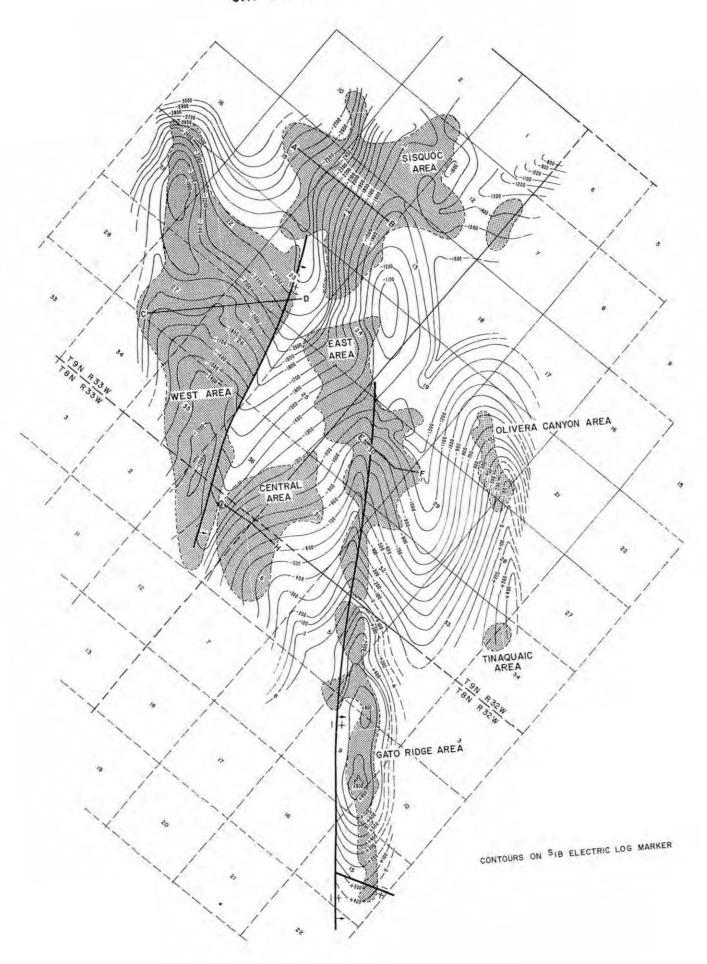
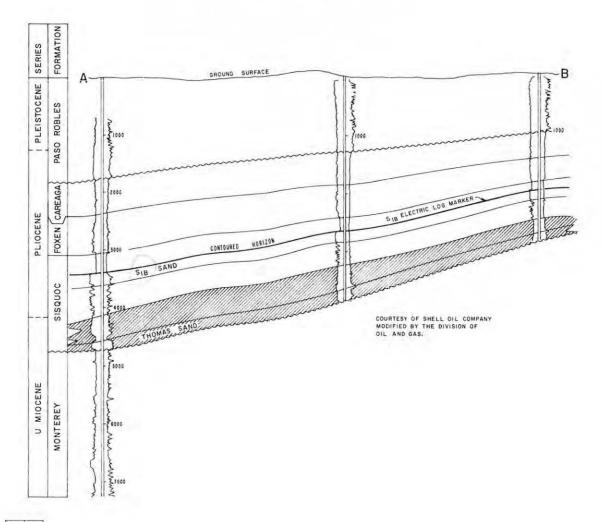
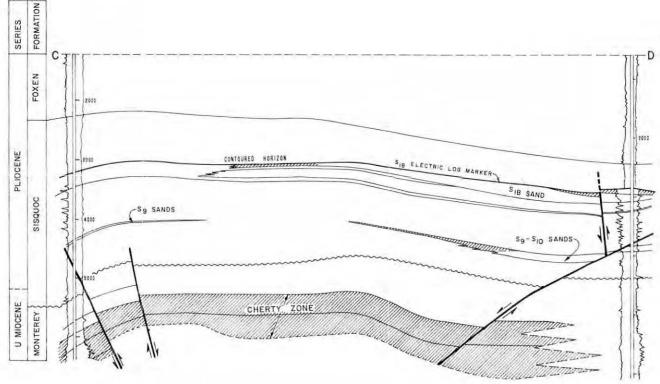
CAT CANYON OIL FIELD

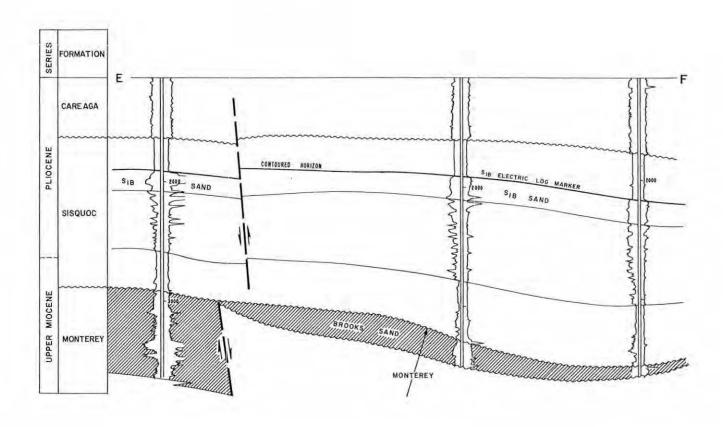


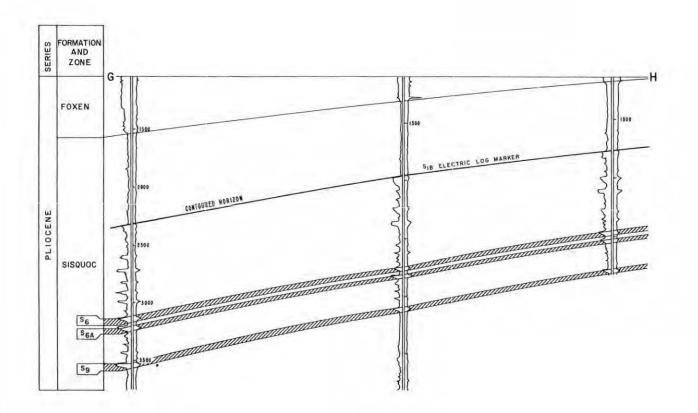
CAT CANYON OIL FIELD
Sisquoc Area and West Area



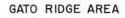


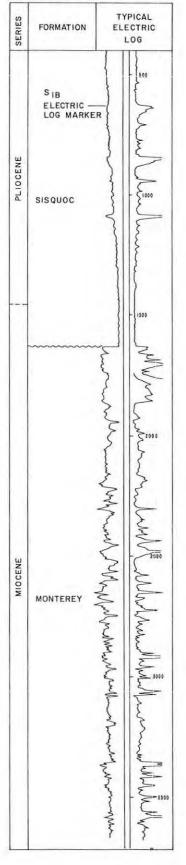
CAT CANYON OIL FIELD East Area and Central Area



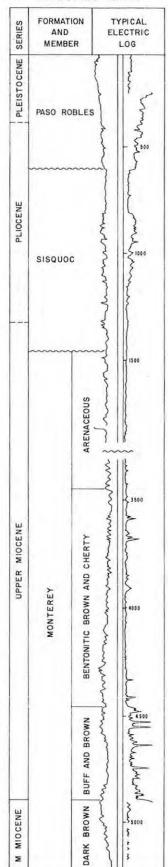


CAT CANYON OIL FIELD

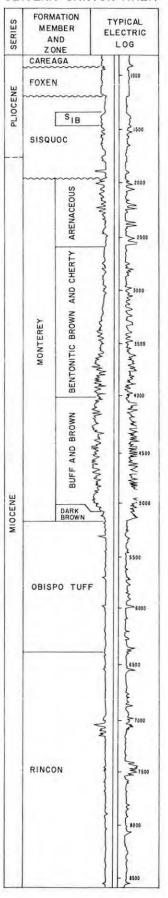




TINAQUAIC AREA



OLIVERA CANYON AREA



CAT CANYON OIL FIELD

Santa Barbara County

LOCATION: 8 miles southeast of Santa Maria

TYPE OF TRAP: See areas ELEVATION: 700 - 1,400

DISCOVERY DATA

					Initia	daily uction	1
Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	(ldd)	Gas (Mcf)	Date of completion
Sisquoc	Union Oil Co, of Calif. "Palmer Stendel" (Old) 1	Palmer Union Oil Co. 1	26 9N 33W	SB	150	N.A.	1908

Remarks:

DEEPEST WELL DATA

		Date			Depth	At total	al depth
Present operator and well name	Original operator and well name	started	Sec. T. & R.	8 & M		Strata	Age
Continetal Oil Co. "McNee" 4	Union Oil Co. of Calif, "McNee" 4	Jul 1945	20 9N 32W	SB	9,001	Rincon	early Mio

PRODUCTION DATA (Jan. 1, 1974)

	1973 Production		1973 Proved	1973 Average number	Cumulative :	production	Peak oil prod	uction	Total num	ber of wells	Maximum proved
OII (bbI)	Net gas (Mcf)	Water (bbl)	acreage	producing wells	OII (bbI)	Gas (Mcf)	Barrels	Year	Drilled	Completed	acreage
6,832,620	3,601,914	33,499,949	7,400	634	208,900,427	105,519,748	8,373,328	1953	1,334	1,174	8,160

STIMULATION DATA (Jan. 1, 1974) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
		1	

SPACING ACT: See areas

BASE OF FRESH WATER: See areas

CURRENT CASING PROGRAM: See areas

METHOD OF WASTE DISPOSAL: See areas

REMARKS: Effective January 1, 1972, the Four Deer area of Cat Canyon oil field was classified as a separate field.

REFERENCES: Prutzman, P.W., Petroleum in Southern California: Calif. State Mining Bureau Bull. 63 (1912).

Woodring, W.P., and M.N. Bramlette, Geology and Paleontology of the Santa Maria District, California: U.S. Geol. Survey Prof. Paper 222, p. 120 (1950).

CAT CANYON OIL FIELD Santa Barbara County

CENTRAL AREA

LOCATION: See map sheet of Cat Canyon Oil Field

TYPE OF TRAP: Sand pinchout on homocline

ELEVATION: 1,000

DISCOVERY DATA

					Initia prod	daily uction	
Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	BAN	Oit (bbl)	Gas (Mcf)	Date of completion
Sisquoc	Getty 0il Co. "Los Alamos" 32	Pacific Western Oil Corp. "Los Alamos" 32	6 8N 32W	SB	184	8	May 1956

Remarks:

DEEPEST WELL DATA

		Date		-	Depth	At to	al depth
Present operator and well name	Original operator and well name	started	Sec. T. & R.	B & M		Strata	Age
Getty Oil Co. "Los Alamos" 32	Pacific Western Oil Corp. "Los Alamos" 32	Feb 1956	6 8N 32W	SB	5,210	Monterey	Miocene

PRODUCING ZONES

	Average	Average net thickness	Geologic		Oil gravity (*API) or	Salinity of zone water	Class BOPE
Zone	depth (feet)	(feet)	Age	Formation	Gas (btu)	gr gal	required
Sisquoc	2,800	45	Pliocene	Sisquoc	13	450	11

PRODUCTION DATA (Jan. 1, 1974)

	1973 Production		1973 Proved	Average number	Cumulative	production	Peak oil produ	uction	Total num	ber of wells	Maximum
Oil (bbl)	Net gas (Mcf)	Water (bb1)	acreage	producing wells	Oil (bb1)	Gas (Mcf)	Barrels	Year	Drilled	Completed	acreage
559,826	58,321	1,046,398	590	47	N.A.	N.A.	N.A.	N.A.	84	71	710

STIMULATION DATA (Jan. 1, 1974)

Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
1964	18,002,456	9
1963	1,180,231	15
1965	41,322	1
	1964 1963	Date - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent) 1964 18,002,456 1963 1,180,231

SPACING ACT: Applies

BASE OF FRESH WATER: 850

CURRENT CASING PROGRAM: 10 3/4" cem. 275; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is used in the water-flood project.

REMARKS: This area was formerly considered to be part of the West area.

REFERENCES: Bailey, Wm., C., Operations in District No. 3: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 2, p. 93 (1956).

EAST AREA

CAT CANYON OIL FIELD Santa Barbara County

LOCATION: See map sheet of Cat Canyon Oil Field TYPE OF TRAP: Faulted homocline; lenticular sands,

ELEVATION: 900

DISCOVERY DATA

			-			l daily action	
Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Oil (bbl)	Gas (Mcf)	Date of completion
Sisquoc Brooks Monterey	Getty Oil Co. "G.W.P." 44A Robert G. Russell & Son "Field Fee" 1 Continental Oil Co. "Forter" 1-C	Slick-Moorman Production Co. 44A Brooks Oil Co. 1 Slick-Moorman Production Co. "Palmer Stendel" 1-C	24 9N 33W 31 9N 32W 24 9N 33W	SB SB SB	25 150 *7	0 0	Jun 1953 1909 Oct 1953

Remarks: * Includes some oil produced from 40' of basal Sisquoc sand.

DEEPEST WELL DATA

		Date	9	L	Deoth	At total	al depth
Present operator and well name	Original operator and well name	started	Sec. T. & R.	B & M		Strata	Age
Husky Oil Co. of Delaware "Victory" 20	Palmer Union Oil Co. "Stendel" 20	Jul 1928	30 9N 32W	SB	7,200	Knoxville	Jurassic

PRODUCING ZONES

	Average depth	Average net thickness	Geologic		Oil gravity (*API) or	Salinity of	Class BOPE
Zone	(feet)	(feet)	Age	Formation	Gas (btu)	gr/gal	required
Sisquoc Brooks Monterey	3,000 2,100 3,000	250 200 500	Pliocene late Miocene Miocene	Sisquoc Monterey Monterey	18 10 6	N.A. 425 330	I I II

1973 Production		1973 Production 1973 1973 Cumulative production		roduction	Peak oil production		Total number of wells		Maximum		
(100) 110	Net gas (Mcf)	Water (bbl)	acreage	producing wells	Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	acreage
752,180	24,220	1,083,280	1,120	111	N.A.	N.A.	N.A.	N.A.	230	199	1,280

STIMULATION DATA (Jan. 1, 1974)

Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
1966 1964	3,971,777 2,672,691	9 77
	started 1966	Date - Water, bbl; Gas, Mcf; started Steam, bbl (water equivalent) 1966 3,971,777

SPACING ACT: Does not apply

BASE OF FRESH WATER: 1,000

CURRENT CASING PROGRAM: 10 3/4" cem. 300; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is injected into disposal wells.

REMARKS: East area data includes the Slick-Moorman area.

REFERENCES: Bailey, Wm. C., Operations in District No. 3: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 39, No. 2 (1953).

Cross, R.K., East Cat Canyon Area of the Cat Canyon Oil Field: Calif. State Div. of Mines Bull. 118, p. 435 (1940).

Prutzman, P.W., Petroleum in Southern California: Calif. State Mining Bureau Bull. 63, p. 379 (1912).

Woodring, W.P., and M.N. Bramlette, Geology and Paleontology of the Santa Maria District, California: U.S. Geol. Survey Prof. Paper 222, p. 121 (1950).

CAT CANYON OIL FIELD

Santa Barbara County

LOCATION: See map sheet of Cat Canyon Oil Field

TYPE OF TRAP: Faulted anticline

ELEVATION: 1,400

GATO RIDGE AREA

DISCOVERY DATA

			-1		Initial daily production		
Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B& V	Oil (bbl)	Gas (Mcf)	Date of completion
Sisquoc Buff and Brown	Union Oil Co. of Calif. "Union-Continental" 1 Pinal Dome Corp. No. T-2	O.C. Field Gasoline Corp. "Continental" 1 Same as present	4 8N 32W 15 8N 32W	SB SB	50	N.A. 0	Mar 1937 Jan 1915

Remarks:

DEEPEST WELL DATA

			1,71	1111	Deoth	At total depth	
Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	8 & M		Strata	Age
Sum 0il Co. "Tognazzini" 1	Barnsdall Oil Co. of Calif. "Tognazzini" 1	Apr 1930	9 8N 32W	SB	6,510	Monterey	Miocene

PRODUCING ZONES

	Average Average net Geologic Oil gravity (*API) or		Oil gravity	Satinity of zone water	Class BOPE			
Zone	(feet)	(feet)	Age	Formation	Gas (btu)	gr/gal	required	
Sisquoc Buff and Brown	2,210 3,800	200 300	early Pliocene Miocene	Sisquoc Monterey	14 13	N.A. 330	11	

PRODUCTION DATA (Jan. 1, 1974)

1973 Production		duction 1973 1973 Cumulative product Average number Cumulative product		roduction	ction Peak oil production		Total number of wells		Maximum		
Oil (bbl)	Net gas (Mcf)	Water (bbl)	acreage	producing wells	O11 (bb1)	Gas (Mcf)	Barrels	Year	Drilled	Completed	acreage
475,885	688,958	1,504,465	690	66	N.A.	N.A.	N.A.	N.A.	114	94	740

STIMULATION DATA (Jan. 1, 1974)

project sta	te - Water, bbl ted Steam, bbl (wa	Gas, Mcf; number of wells used for injection

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 10 3/4" cem. 300; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is injected into Monterey zone disposal wells.

REMARKS:

REFERENCES: Cross, R.K., Gato Ridge Area of Cat Canyon Oil Field: State Div. of Mines, Bull. 118, p. 438 (1940).

Dolman, S.G., Operations in District No. 3: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 17, No. 3, p. 34 (1931).

Woodring, W.P., and M.N. Bramlette, Geology and Paleontology of the Santa Maria District, California: U.S. Geol. Survey Prof. Paper 222, p. 121 (1950).

OLIVERA CANYON AREA

CAT CANYON DIL FIELD Santa Barbara County

LOCATION: See map sheet of Cat Canyon Oil Field

TYPE OF TRAP: Anticline

ELEVATION: 800 DISCOVERY DATA

							l daily uction		
Zone		Present operator and well name	Original operator and well name	Sec. T. & R.	B & V	Oil (bbl)	Gas (Mcf)	Date of completion	
Cherty - Brown Buff and		Continental Oil Co. "McNee" 2 Same as above	Union Oil Co. of Calif. "McNee" 2 Same as above	20 9N 32W 20 9N 32W	SB SB	37	N.A.	Jun 1944 Jun 1944	
			I.	1	1 1			1	

Remarks: * Production commingled.

DEEPEST WELL DATA

		Date			Depth	At tot	al depth
Present operator and well name	Original operator and well name	started	Sec. T. & R.	8 % M		Strata	Age
Continental Oil Co, "McNee" 4	Union Oil Co. of Calif. "McNee" 4	Jul 1945	20 9N 32W	SB	9,001	Rincon	early Mio

Formation Monterey	(°API) or Gas (btu)	gr gal	Class BOPE required	
Monterey	10			
1	10	700	11	
Monterey	10	700	11	
	Monterey	Monterey 10	Monterey 10 700	

1973 Production		1973 Proyed	1973 1973 Proved Average number		Cumulative production		Peak oil production		Total number of wells		
Oil (bbl)	Net gas (Mcf)	Water (bbl)	acreage	producing wells	Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	proved acreage
223,648	0	459,221	200	15	4,578,523	0	369,422	1953	37	23	210

STIMULATION DATA (Jan. 1, 1974)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
**			

SPACING ACT: Applies

BASE OF FRESH WATER 600

CURRENT CASING PROGRAM. 13 3/8" cem. 720; 8 5/8" combination string landed through zone and cemented through ports above zone,

METHOD OF WASTE DISPOSAL. Waste water is injected into water-disposal wells.

REMARKS

REFERENCES: Dolman, S.G., Operations in District No. 3: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 30, No. 2, p. 43 (1944).

CAT CANYON OIL FIELD Santa Barbara County

SISQUOC AREA

LOCATION. See map sheet of Cat Canyon Oil Field

TYPE OF TRAP Permeability barrier on west flank of anticline

ELEVATION: 700

DISCOVERY DATA

					Initial daily production		
Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B&M	Oll (bbl)	Gas (Mcl)	Date of completion
Sisquoc	Husky Oil Co. of Del. "Goodwin" 1	Union Oil Co. of Calif. "Santa Maria Realty" 1	10 9N 33W	SB	69	0	Dec 1944
Thomas Monterey	Shell Oil Co. "Thomas" 88-X Husky Oil Co. of Del. "Goodwin" 1	M J M & M Oil Co. "Thomas" 88-X Union Oil Co. of Calif. "Santa Maria Realty" 1	15 9N 33W 10 9N 33W	SB SB	89	0	Nov 1954 Dec 1944

Remarks: * Production from Sisquoc and Monterey zones commingled.

DEEPEST WELL DATA

		Date			Depth	At total depth		
Present operator and well name	Original operator and well name	started	Sec. T. & R.	B & M		Strata	Age	
Shell Oil Co. "Lloyd et al" 7	Same	Mar 1971	15 9N 33W	SB	7,860	Monterey	Miocene	

PRODUCING ZONES

	Average depth	Average net thickness	Geologic		Oil gravity (*API) or	Salinity of	Class BOPE
Zone	(feet)	(feet)	Age Formation		Gas (btu)	zone water gr gal	required
Sisquoc Thomas Monterey	2,750 4,900 4,000	500 70 500	Pliocene Miocene Miocene	Sisquoc Sisquoc Monterey	10 7 9	50 700 610	II II

PRODUCTION DATA (Jan. 1, 1974)

1973 Production			1973 Proved	1973 Average number	Cumulative pr	roduction	Peak oil production		Total numi	ber of wells	Maximum
Oil (bbl)	Net gas (Mcf)	Water (bbl)	acreage	producing wells	Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	acreage
3,305,917	396,492	3,472,015	1,970	231	N.A.	N.A.	N.A.	N.A.	401	374	2,190

STIMULATION DATA (Jan. 1, 1974)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1963	1,404,573	2
Steam flood	1967	693,193	2
Cyclic steam	1963	10,675,132	289

SPACING ACT. Applies

BASE OF FRESH WATER: 2,000

CURRENT CASING PROGRAM 10 3/4" cem. 60 or 9 5/8" cem. 400; 7" combination string landed through zone and cemented through ports above zone and across base of fresh-water sands; 7" cem. above zone to the surface; 5 1/2" liner hung through zone (Sisquoc).

METHOD OF WASTE DISPOSAL: Waste water is injected into disposal wells.

REMARKS The Sisquoc area includes the Bradley Canyon area.

REFERENCES: Bailey, Wm. C., Operations in District No. 3: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 40, No. 2 (1954).

TINAQUAIC AREA

CAT CANYON OIL FIELD Santa Barbara County

LOCATION: See map sheet of Cat Canyon Oil Field

TYPE OF TRAP: Anticline ELEVATION: 1,020

DISCOVERY DATA

					uction	
Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Oil (bbl)	Gas (Mcf)	Date of completion
ntal Oil Co. "Wickenden" 1	Four-Five-Six Oil Co. "Wickenden" 1	34 9N 32W	SB	90	0	Feb 1945
nt	tal Oil Co. "Wickenden" 1	tal Oil Co. "Wickenden" 1 Four-Five-Six Oil Co. "Wickenden" 1	tal Oil Co. "Wickenden" 1 Four-Five-Six Oil Co. "Wickenden" 1 34 9N 32W	tal Oil Co. "Wickenden" 1 Four-Five-Six Oil Co. "Wickenden" 1 34 9N 32W SB	tal Oil Co. "Wickenden" 1 Four-Five-Six Oil Co. "Wickenden" 1 34 9N 32W SB 90	tal Oil Co. "Wickenden" 1 Four-Five-Six Oil Co. "Wickenden" 1 34 9N 32W SB 90 0

Remarks:

DEEPEST VELL DATA

		Date		-	Depth	At tota	l depth
Present operator and well name	Original operator and well name	started	Sec. T. & R.	B & M		Strata	Age
Continental Oil Co. "Wickenden" 5	Same	Jun 1973	33 9N 32W	SB	5,250	Monterey	Miocene

PRODUCING ZONES

	Average depth	Average net thickness		Geologic		Salinity of	Class BOPE
Zone	(feet)	(feet)	Age	Formation	(*API) or Gas (btu)	zone water gr/gal	required
Monterey	2,020 - 3,180	1,200 - 3,200	Miocene	Monterey	6	N.A.	11

PRODUCTION DATA (Ian. 1, 1974)

	1973 Production		1973 Proved	1973 Average number	Cumulative p	production	Peak oil produ	uction	Total num	ber of wells	Maximum
Oil (bbl)	Net gas (Mcf)	Water (bbl)	acreage	producing wells	Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	acreage
6,963	0	4,559	50	2	21,519	0	7,342	1948	7	3	50

STIMULATION DATA (Jan. 1, 1974)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
7.5			

SPACING ACT: Applies

BASE OF FRESH WATER: 380 - 600

CURRENT CASING PROGRAM: 13 3/8" cem. 200; 8 5/8" combination string landed through zone and cemented through ports above zone and across base of fresh-METHOD OF WASTE DISPOSAL: Water is transported to Olivera Canyon area for subsurface disposal.

REMARKS: No formal production reports were filed until July 1948. Cumulative production only includes oil that was reported since July 1948.

REFERENCES: Dolman, S.G., Operations in District No. 3: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 31, No. 2 (1945).

CAT CANYON OIL FIELD

Santa Barbara County

WEST AREA

LOCATION: See map sheet of Cat Canyon Oil Field

TYPE OF TRAP: Faulted anticline; sand pinchout

ELEVATION: 800 - 1,200

DISCOVERY DATA

			1				
Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	(bbl)	Gas (Mcf)	Date of completion	
Union Oil Co. of Calif. "Palmer Stendel" (Old) 1	Palmer Union Oil Co. 1	26 9N 33W	SB	150	N.A.	1908	
Standard Oil Co. of Calif. "Alexander" 164 Standard Oil Co. of Calif. "Los Flores" 1-1	Same as present Standard Oil Co. of Calif. "Los Flores Land and Oil Co. Standard" 1	21 9N 33W 27 9N 33W	SB SB	366 716		Mar 1953 Aug 1938	
	Union Oil Co. of Calif, "Palmer Stendel" (Old) 1 Standard Oil Co. of Calif, "Alexander" 164	Union 0il Co. of Calif. "Palmer Stendel" (Old) 1 Standard 0il Co. of Calif. "Alexander" 164 Standard 0il Co. of Calif. "Los Flores" 1-1 Standard 0il Co. of Calif. "Los Flores Land	Union 0il Co. of Calif. "Palmer Stendel" (Old) 1 Standard 0il Co. of Calif. "Alexander" 164 Standard 0il Co. of Calif. "Los Flores" 1-1 Standard 0il Co. of Calif. "Los Flores Land 27 9N 33W 27 9N 33W	Union 0il Co. of Calif. "Palmer Stendel" Palmer Union 0il Co. 1 26 9N 33W SB (Old) 1 Standard 0il Co. of Calif. "Alexander" 164 Standard 0il Co. of Calif. "Los Flores" 1-1 Standard 0il Co. of Calif. "Los Flores Land 27 9N 33W SB SB SB SB STandard 0il Co. of Calif. "Los Flores Land 27 9N 33W SB SB SB SB STANDARD STAND	Present operator and well name	Present operator and well name Original operator and well name Sec. T. & R. B & M (bb) (Mcf)	

Remarks; Indications of oil in the Monterey Formation were noted as early as August 1918 in Pan American Pet. Inv. Corp. well No. 15A (now Getty Oil Co. "Los Alamos" 15-A).

		Date			Depth	At total depth		
Present operator and well name	Original operator and well name	started	Sec. T. & R.	B&M		Strata	Age	
Union Oil Co. of Calif, "Bell" 106	Same	Sep 1951	35 9N 33W	SB	7,460	Monterey	Miocene	

PRODUCING ZONES

Average	Average net	Geologic		Oil gravity	Salinity of	Class BOPE
(feet)	(feet)	Age	Formation	Gas (btu)	gr gal	required
2,800	600	Pliocene	Sisquoc	17	1,330	11
6,000	1,500	Miocene	Monterey	15	400	îì
					1	
	depth (feet) 2,800 3,750	depth (feet) thickness (feet) 2,800 600 3,750 200	dep01 (feet) Age 2,800 600 Pliocene 3,750 200 Pliocene 6,000 1,500 Miocene	depth thickness Age Formation	depth (feet) thickness (feet) Age Formation (*API) or Gas (btu) 2,800 600 Pliocene Sisquoc 17 3,750 200 Pliocene Sisquoc 23 6,000 1,500 Miocene Monterey 15	depth (feet) thickness (feet) Age Formation (*API) or Gas (btu) zone water gright 2,800 600 Pliocene Sisquoc 17 1,330 3,750 200 Pliocene Sisquoc 23 1,200 6,000 1,500 Miocene Monterey 15 400

	1973 Production		1973 Proved	1973 Average number	Cumulative production		Peak oil production		Total number of wells		Maximum
Oil (bbl)	Net gas (Mcf)	Water (bb1)	acreage	producing wells	Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	acreage
1,508,201	2,433,923	25,930,011	2,780	162	N.A.	N.A.	N.A.	N.A.	461	410	2,980

STIMULATION DATA (Lan. 1, 1974)

Type of project	Date started	Cumulative Injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1954	120,032,572	70
Cyclic steam	1964	247,972	20

SPACING ACT: Does not apply

BASE OF FRESH WATER: 1,000

CURRENT CASING PROGRAM: 13 3/8" or 11 3/4" cem. 200 - 400; 8 5/8" or 7" cem. above zone and across base of fresh-water sands; 6 5/8" or 5 1/2" liner landed through zone; or 7" combination string landed through zone and cemented through ports above zone and across base of fresh-water sands, METHOD OF WASTE DISPOSAL: Waste water is injected into water-disposal wells or is used in water-flood projects.

REMARKS

REFERENCES: Huey, W.F., West Cat Canyon Area of Cat Canyon Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 40, No. 1 (1954).

Manlove, C., West Cat Canyon Oil Field: Calif. State Div. of Mines Bull. 118, p. 432 (1938).

Prutzman, P.W., Petroleum in Southern California: Calif. State Mining Bureau Bull. 63, p. 382 (1912).

Regan, L.J. Jr., and A.W. Hughes, Fractured Reservoirs of Santa Maria District, California: Am. Assoc. Petroleum Geologists Bull., Vol. 33, No. 1, p. 32 (1949).

p. 32 (1949).
Woodring, W.P., and M.N. Bramlette, Geology and Paleontology of the Santa Maria District, California: U.S. Geol. Survey Prof. Paper 222, p. 120 (1950).